

ANGLED GRIPPING JOINT COMBINATION FOR SUPPORT STRUCTURES

ABSTRACT OF THE DISCLOSURE

An apparatus used in the assembly and structure of tables, benches, sawhorses, and scaffolds. In particular, the invention discloses a U-beam top joint with lumber end gripper used with a U-beam splay bar, which are used in pairs or greater multiples to hold pieces of lumber in the required position to form a structure. The combination can be readily transported to a recreation or construction site and used to assemble a picnic table, bench, sawhorse with lumber fence, bench, scaffold or like structure with available lumber, cut to form the desired height for the structure. The U-beam top joint with lumber end gripper and the U-beam splay bar interact with the lumber legs and cross-beam such that an increase in load on the cross-beam causes a proportional increase in the rigidity and stability of the structure. The U-beam top joint and the U-beam splay bar each have side lumber brackets by which multiple top joints and splay bars can be linked to each other.